

# 1. Introduction

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4. The system claimed in claim 1, wherein each of the signal sources comprises a pump.

Sub 1

6. An amplifier comprising a system according to claim 1 for injecting pump signals and an amplifier fiber connected to the second output of the highest rank circulator.

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9. An amplifier according to claim 6, wherein amplification is effected in the amplifier fiber by stimulated Raman scattering.

add  
out

10. A fiber optic transmission system comprising an amplifier according to claim 6.